Model 2DM
2" SUBMERSIBLE SEWAGE PUMP
APPLICATIONS
Non-clog submersible sewage pumps for simplex and duplex installations in small lift stations, drainage systems or raw water applications requiring solids handling capability of 2" diameter made specifically for:

- Homes and farms
- Mobile home parks and motels
- Schools and hospitals
- Municipal package systems
- Industrial treatment systems
- Dewatering applications

FEATURES
Casing: Corrosion resistant AISI 304 SS designed for long lasting performance

Impeller: AISI type 304 stainless steel construction; two vane non-clog design for maximum pumping efficiency

Mechanical Seal: Drive lube silicon carbide sealing faces; all metal components of AISI type 300 stainless steel running in protected oil chamber

Elastomers: BUNA-N

Pump Support Feet: Motor shell and lifting handle: Constructed of AISI type 304 series stainless steel

Shaft: AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening

Discharge: 2" NPT for horizontal connection to rigid, flexible or guide rail piping connection

SPECIFICATIONS

Pump:
- 2" discharge
- Solid size: 2" solids
- Capacities: to 175 U.S. GPM (41 m³/h)
- Total heads: to 47 feet TDH (14 m)
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermitten
- Maximum submergence: to 17 feet (5 m)
- AISI 304 SS casing
- AISI 304 SS impeller
- Continuous duty rated, non-overloading motor

Motor:
- Single phase: 60 Hz, 3450 RPM; ½ to 1 HP, 230 V
- Three phase: 60 Hz, 3450 RPM, ¾ to 1½ HP, 230 and 460 V
- Non-overloading
- Air-filled, class F insulated motor
- Thermal overload protection: built-in with automatic reset on single phase, 230 V models
- Three phase models require external overload in panel
- Power cord: 20 feet long
- Single phase 230 V models are supplied with molded NEMA plugs and built-in capacitors
- Three phase models are supplied with bare leads
- Float controls: optional, see accessory section for simplex or duplex system requirements
- Rotation is clockwise when viewed from top

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>Pump body and motor casing</td>
<td>Stainless steel (AISI 304)</td>
</tr>
<tr>
<td>Impeller</td>
<td>Stainless steel (AISI 304)</td>
</tr>
<tr>
<td>Lower mechanical seal</td>
<td>Silicon carbide/silicon carbide</td>
</tr>
<tr>
<td>Upper lip seal</td>
<td>Nitrile rubber</td>
</tr>
<tr>
<td>Motor Shaft</td>
<td>Stainless steel (AISI 304)</td>
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<tr>
<td>Handle</td>
<td>Nylon</td>
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### Model Information

<table>
<thead>
<tr>
<th>Order Number</th>
<th>HP</th>
<th>Volts</th>
<th>Phase</th>
<th>RPM</th>
<th>Maximum Amps</th>
<th>Start Amps</th>
<th>Capacitor uF/V</th>
<th>Resistance Start/Line-Line</th>
<th>Cord Length</th>
<th>Discharge Connection</th>
<th>Solids (Lbs.)</th>
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<tbody>
<tr>
<td>2DM51D1NA</td>
<td>¾</td>
<td>230</td>
<td>1</td>
<td>3450</td>
<td>5.4</td>
<td>27.2</td>
<td>22/450</td>
<td>4.4 / 1.9</td>
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<td>2*</td>
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<td>3.4</td>
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<tr>
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<td></td>
<td>1.7</td>
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<td>NA / 7.8</td>
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<td>3450</td>
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<td>30/450</td>
<td>4.2 / 1.9</td>
<td>20'</td>
<td>2*</td>
<td>34</td>
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<td>230</td>
<td>3</td>
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<td>4.4</td>
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<td>NA / 3.7</td>
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<tr>
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<td>NA / 4.8</td>
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### Meters vs. Feet

**Total Dynamic Head**

- 2DM51D-N ¾ HP
- 2DM51E-N 1 HP
- 2DM51F-N 1½ HP

**U.S. GPM vs. Capacity**

- Maximum Capacity: 200 m³/hr
- Minimum Capacity: 0 m³/hr

**Meters vs. Feet**

- Maximum Total Dynamic Head: 14 feet
- Minimum Total Dynamic Head: 0 feet

**Capacity vs. U.S. GPM**

- Maximum Capacity: 200 m³/hr
- Minimum Capacity: 0 m³/hr
### DIMENSIONS

<table>
<thead>
<tr>
<th>Series</th>
<th>HP</th>
<th>Phase</th>
<th>Dimensions in inches (mm)</th>
<th>Discharge Size</th>
<th>Wt. (lbs.)</th>
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<tr>
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<td>H</td>
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<tr>
<td></td>
<td>1</td>
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<td>L</td>
<td>18 7/8 (478)</td>
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<td>1 1/2</td>
<td>3</td>
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<td>18 7/8 (478)</td>
<td>25</td>
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**DISCHARGE SIZE**